PATENT COOPERATION TREATY

PCT

NOTIFICATION CONCERNING TRANSMITTAL OF COPY OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OF THE PATENT COOPERATION TREATY)

(PCT Rule 44bis.1(c))

To:

G.E. EHRLICH (1995)-LTD.

From the INTERNATIONAL BUREAU

ISRAËL

11 Menachem Begin Street

G.E. CHRLICH (1993) LTO

Date of mailing (day/month/year) 29 March 2007 (29.03.2007)

Applicant's or agent's file reference 27797

International application No. PCT/IL2004/000335 International filing date (day/month/year) 18 April 2004 (18.04.2004)

Priority date (day/month/year) 16 April 2003 (16.04.2003)

IMPORTANT NOTICE

Applicant

YEDA RESEARCH AND DEVELOPMENT CO. LTD. et al

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

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Form PCT/IB/326 (January 2004)

PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 27797	FOR FURTHER ACTION	See item 4 below		
International application No. PCT/IL2004/000335	International filing date (day/month/year) 18 April 2004 (18.04.2004)	Priority date (day/month/year) 16 April 2003 (16.04.2003)		
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237				
Applicant YEDA RESEARCH AND DEVELOPMENT CO. LTD.				

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).					
2.	This REPORT consists of a total of 6 sheets, including this cover sheet.					
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.					
3.	This report contains indications	relating to the following items:				
	Box No. I	Basis of the report				
	Вох №. П	Priority				
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	Box No. IV	Lack of unity of invention				
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Box No. VI	Certain documents cited				
	Box No. VII	Certain defects in the international application				
	Box No. VIII	Certain observations on the international application				
4.	The International Bureau will co not, except where the applicant r date (Rule 44bis .2).	mmunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but nakes an express request under Article 23(2), before the expiration of 30 months from the priority				
		Detections				
		Date of issuance of this report 20 March 2007 (20.03.2007)				

	Date of issuance of this report 20 March 2007 (20.03.2007)	
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Simin Baharlou	
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Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

INTERNATIONA	AL SEARCHING A	AUTHORITY				
INTERNATIONAL SEARCHING AUTHORITY To: GEOFFREY L. MELNICK G.E. EHRLICH (1995) LTD. 11 MENACHEM BEGIN STREET RAMAT GAN, ISRAEL 52 521		PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY				
					(PCT Rule 43bis.1)	
				Date of mailing (day/month/year)	17 JAN 2007	
Applicant's or a	gent's file referenc	e	· - · · ·	FOR FURTHER ACTION		
27797				See paragraph 2 below		
International ap	plication No.	Intern	ational filing date ((day/month/year)	Priority date (day/month/year)	
PCT/IL04/0033			ril 2004 (18.04.200		02 June 2003 (02.06.2003)	
	tent Classification					
IPC: C12N USPC: 435/20	' 9/26(2007.01);A6 01;514/2;424/94.61	1K 38/00(200	07.01),3 <mark>8/47</mark> (2007	.01)		
Applicant						
YEDA RESEAI	RCH AND DEVEL	OPMENT CO	LTD.			
1. This opinio	n contains indication	ons relating to	the following items	s:		
Вох	No. I Basis	of the opinion	ì			
Box No. II Priority						
	No. III Non-	establishment (of opinion with reg	ard to novelty, inve	ntive step and industrial applicability	
Вох	No. IV Lack	of unity of inv	ention			
Вох	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				o novelty, inventive step or industrial tatement	
Вох	No. VI Certa	in documents o	cited			
Box	No. VII Certa	in defects in th	e international app	plication		
Box	No. VIII Certa	in observations	s on the internation	al application		
2. FURTHE	R ACTION					
Internationa Authority o	I Preliminary Exa ther than this one t	mining Authonories to be the IPEA	ority ("IPEA") exc A and the chosen I	cot that this does	be considered to be a written opinion of the not apply where the applicant chooses an all International Bureau under Rule 66.1bis(b) ered.	
of Form PC	iten reply together, T/ISA/220 or befor	where apprope the expiration	riate, with amendn	ients, before the ex-	PEA, the applicant is invited to submit to the piration of 3 months from the date of mailing whichever expires later.	
For further options, see Form PCT/ISA/220.						
3. For further of	details, see notes to	Form PCT/IS.	A/220.			
	ng address of the IS		Date of completi	on of this opinion	Authorized officer	
	op PCT, Attn: ISA/U: ssioner for Patents	5	14 December 20	06 (14,12,2006)	Dafrid Steadman / Was 6000	
P.O. Bo Alexand	x 1450 Iria, Virginia 22313-1	450		,	Telephone No. 571-272-1600	

Facsimile No. (571) 273-3201
Form PCT/ISA/237 (cover sheet) (April 2005)

International application No.

PCT/IL04/00335

Box No	o. 1 Basis of this opinion
1. With	regard to the language, this opinion has been established on the basis of:
\boxtimes	the international application in the language in which it was filed
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. With a invent	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, this opinion has been established on the basis of:
. a.	type of material
	a sequence listing
	table(s) related to the sequence listing
ъ.	format of material
	on paper
	in electronic form
c.	time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in electronic form.
	furnished subsequently to this Authority for the purposes of search.
3. [In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additi	onal comments:

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Bo	ox No. IV Lack of unity of invention
 2. 3. 	In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the applicable time limit: paid additional fees paid additional fees under protest and, where applicable, the protest fee paid additional fees under protest but the applicable protest fee was not paid not paid additional fees This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is complied with not complied with for the following reasons: See the lack of unity section of the International Search Report(Form PCT/ISA/210)
4. C	onsequently, this opinion has been established in respect of the following parts of the international application: all parts. the parts relating to claims Nos. 1-8.33-54,57-75,87-97, reciting Table 4 and SEQ ID NO:1

International application No. PCT/IL04/00335

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

2. Citations and explanations:

Claims 1-3, 5-6, 33-37, and 57-75 lack novelty under PCT Article 33(2) as being anticipated by Roeber et al. (Acta Crystallogr D Biol Crystallogr 59D:343-344, 2003), which teaches: 1) Ceredase and Cerezyme, which are disclosed as being recombinant human beta-glucocerebrosidase used clinically for treatment of Gaucher's disease; 2) a crystal of a recombinant human glucocerebrosidase having orthorhombic space group C2221 and unit cell parameters a=285.0, b=110.2, c=91.7 Angstroms and diffracts X-rays to a resolution of 2.75 Angstroms; and 3) a method of making said crystal.

Claims 87-97 lack an inventive step under PCT Article 33(3) as being obvious over Roeber et al., which, as noted above, teaches Ceredase and Cerezyme, which are disclosed as being recombinant human beta-glucocerebrosidase used clinically for treatment of Gaucher's disease. In view of the teachings of Roeber et al. the "article of manufacture" according to claims 87-97 would have been obvious.

Claims 4, 7-8, 38-54 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the claimed invention.

Claims 1-8, 33-54, 57-75, and 87-97 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

International application No.

PCT/IL04/00335

Box No. VIII (Certain c	observations	on the	international	application
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The following observations on the claims of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:

Claims I-8, 33-54, 57-75, and 87-97 are objected to as lacking clarity under PCT Rule 66.2(a)(v) because the claims are not fully supported by the description. The application, as originally filed, did not describe: all crystals, methods of making, pharmaceutical compositions, and articles of manufacture as encompassed by the claims. In this case, the disclosure of the single polypeptide, crystal thereof, and method of making said crystal fail to describe all crystals, methods of making, pharmaceutical compositions, and articles of manufacture as encompassed by the claims.

Claims 1-8, 33-54, 57-75, and 87-97 are objected to as lacking clarity under PCT Rule 66.2(a)(v) because of the claims are not fully supported by the description. The description does not disclose the claimed invention in a manner sufficiently clear and complete for the claimed invention to be carried out by a person skilled in the art because: the disclosure of the single polypeptide, crystal thereof, and method of making said crystal fails to enable one to make all crystals, methods of making, pharmaceutical compositions, and articles of manufacture as encompassed by the claims.

Form PCT/ISA/237 (Box No. VIII) (April 2005)